

Unit 2 Creating Systems to Manage Information 2019



**Level 3 National in
Information Technology**

**Additional Sample Assessment
Material**

**Part B
Example Solution**

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Introduction

This solution shown is **one** example only. It is important to read the guidance with each activity. No assumption is made that a method that differs from the solution shown is incorrect.

Activity 6 Forms

Create an efficient interface that will facilitate database input by producing:

(i).an input form to add a supplier.

- The form should be ready for data entry.
- The supplier's name, telephone number and number of days for delivery must be present.
- The number of days for delivery must be within the specified range.
- Valid data should be appended to the supplier table and a save message displayed.
- A suitable error message should appear where invalid data has been used.

Example 1 Supplier Form

The image shows two side-by-side Microsoft Access form designs. Both forms are titled "Add a Supplier".
The left form, titled "Add a Supplier", has a pink header bar with the title. Below it is a text box: "Input the supplier name, telephone number and the number of days for delivery." Another text box below says: "Click Save to save the details of the new supplier." The main area contains four input fields:

- Supplier ID: A button labeled "(New)".
- Supplier name: An empty text box.
- Telephone number: An empty text box with a red asterisk (*) indicating it is required.
- Number days for delivery: A text box containing "1" with a red asterisk (*) and the note "1 to 5 days only".

A blue "Save" button is at the bottom.
The right form, titled "frmSupplier", has a grey header bar with the title. It also has a text box for input instructions and a "Save" button. The "Detail" section contains four pairs of input fields:

- Supplier ID and SupplierID
- Supplier name and Supplier
- Telephone number and SupplierPhoneNumber
- Number days for delivery and DeliveryDays

Each pair of fields has a red asterisk (*) indicating they are required. A blue "Save" button is at the bottom.

The image shows the "Form" properties window and the corresponding VBA code for the "cmdSave_Click" event.
The properties window shows the following settings:

- Format: Data
- Record Source: tblSupplier
- Recordset Type: Dynaset
- Fetch Defaults: Yes
- Filter: None
- Filter On Load: No
- Order By: None
- Order By On Load: Yes
- Wait for Post Processing: No
- Data Entry: Yes

The VBA code for the "cmdSave_Click" event is as follows:

```
Private Sub cmdSave_Click()
    If IsNull(Supplier) Then
        MsgBox "You must enter a supplier name", vbOKOnly
    ElseIf IsNull(SupplierPhoneNumber) Then
        MsgBox "You must enter the supplier telephone number", vbOKOnly
    ElseIf IsNull(DeliveryDays) Or DeliveryDays < 1 Or DeliveryDays > 5 Then
        MsgBox "The delivery days must be from 1 to 5 days", vbOKOnly
    Else
        DoCmd.Save
        DoCmd.GoToRecord , , acNewRec
        MsgBox "The supplier details have been saved", vbOKOnly
    End If
End Sub
```

Example 2 Supplier Form

The left side shows the user interface for 'Add a Supplier'. It has a title 'Add a Supplier', a descriptive text, and four input fields: 'Supplier ID' (with '(New)' button), 'Supplier name', 'Telephone number' (with validation *), and 'Number days for delivery' (with value '1' and validation '1 to 5 days only'). A 'Save' button is at the bottom.

The right side shows the form definition 'frmSupplier'. It includes a 'Form Header' section with the same title and descriptive text. Below it is a 'Detail' section containing four controls: 'Supplier ID' (linked to 'SupplierID'), 'Supplier name' (linked to 'Supplier'), 'Telephone number' (linked to 'SupplierPhoneNumber'), and 'Number days for delivery' (linked to 'DeliveryDays'). A validation rule '1 to 5 days only' is defined for the 'DeliveryDays' field.

```

frmSupplier_example2 frmSupplier_example2 : cmdSave : On Click
  If IsNull([Supplier]) Then
    MessageBox
      Message You must enter a supplier name
      Beep Yes
      Type None
      Title
  Else If IsNull([SupplierphoneNumber]) Then
    MessageBox
      Message You must enter a telephone number
      Beep Yes
      Type None
      Title
  Else If IsNull([DeliveryDays]) Then
    MessageBox
      Message You must enter the number of days for delivery
      Beep Yes
      Type None
      Title
  Else
    RunMenuCommand
      Command SaveRecord
    MessageBox
      Message The supplier details have been saved
      Beep Yes
      Type None
      Title
    GoToRecord
      Object Type
      Object Name
      Record New
      Offset
  End If
  + Add New Action

```

DeliveryDays	
	Format Data Event Other All
Control Source	DeliveryDays
Text Format	Plain Text
Input Mask	
Default Value	1
Validation Rule	Between 1 And 5
Validation Text	The number of days must be between 1 and 5
Filter Lookup	Database Default
Enabled	Yes
Locked	No

Example 1 Delivery Form

(ii). input form to add product deliveries.

- The form should not include validation for any fields.
- The form should not include an automated routine to save the data.
- The user should be able to select the product and input the number that has been delivered.
- These details should then be displayed:
 - the cost price for the product
 - the selling price for the product
 - the current number in stock.
- These details should then be calculated and displayed:
 - the new number in stock
 - the overall cost for the products
 - the overall sales value.

Add a Delivery

Select the product and then enter the number that have been delivered.

Select the product

Enter number delivered

Cost price

Selling price

Current stock

Updated stock

Overall product cost

Overall sales value

This example uses an unbound form.

The control source of the product combo box is these fields from the product table: ProductID, ProductDescription, CostPrice, SellingPrice, NumberInStock. All but the description has been hidden in the combo.

The fields for Cost Price, Selling Price and Current Stock have been set to the relevant hidden column in the combo box.

Calculations have been added.

frmDelivery

Add a Delivery

Select the product and then enter the number that have been delivered.

Select the product

Unbound

Enter number delivered

Cost price

=FormatCurrency([cboProduct].[column](2),2)

Selling price

=FormatCurrency([cboProduct].[column](3),2)

Current stock

=[cboProduct].[column](4)

Updated stock

= [NumberInStock]+[numDelivered]

Overall product cost

=FormatCurrency([updatedstock]*[CostPrice],2)

Overall sales value

=FormatCurrency([updatedstock]*[sellingprice],2)

Example 2 Delivery Form

Add a Delivery

Select the product and then enter the number that have been delivered.

Select the Product

Enter number delivered *

Product ID

Cost price Updated stock

Selling price Overall product cost

Current stock Overall sales value

This example uses a bound form and a combo box drawn using the wizard to find a product.

The automatically generated macro has been shown at the bottom of the page.

Calculations were added.

frmDelivery_example2

Add a Delivery

Select the product and then enter the number that have been delivered.

Select the Product

Unbound *

Enter number delivered *

Product ID

Cost price Updated stock

Selling price Overall product cost

Current stock Overall sales value

frmDelivery_example2 : frmDelivery_example2 : cboFindProduct : After Update

SearchForRecord

Object Type

Object Name

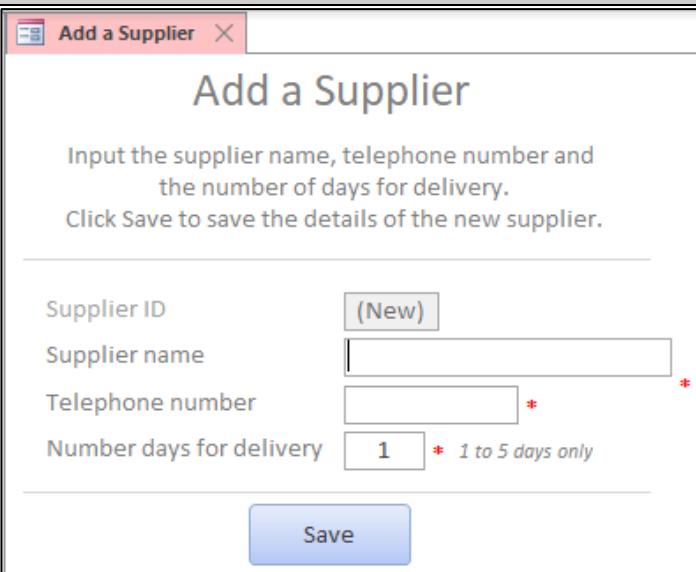
Record First

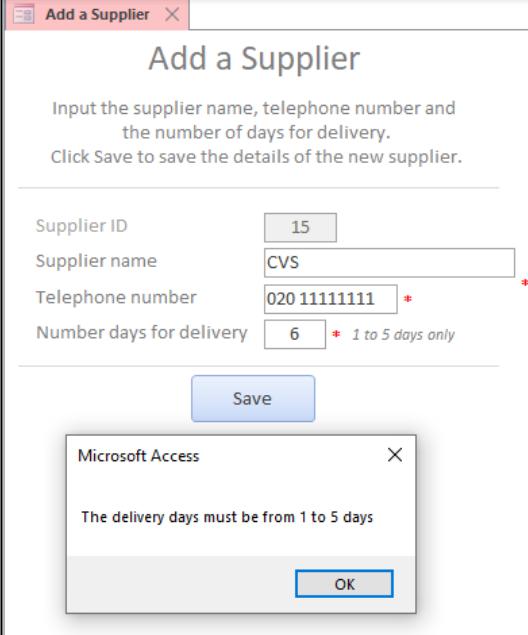
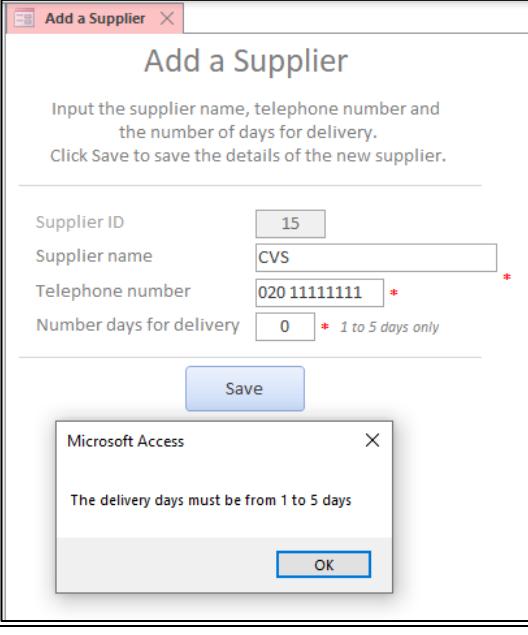
Where Condition = "[ProductID] = " & Str(Nz([Screen].[ActiveControl],0))

Add New Action

Activity 7 - Testing

Screenprints may be on the small side here. Learners can put the screenshots after the table or use A3.

Test No	type test	Add suitable test data	Add the results you would expect to get from a fully working system	Add screenprint(s) of the results of this test carried out on your database. Ensure you show the test data used in the screenprint(s)	Only complete this column if the results are not as expected • Explain the error If you correct the error explain how you have done it including a screenprint
1	N	Open form	Form to open at a new record. Number days for delivery to default to 1		

2	X	SupplierID: Autonumber Supplier: CVS SupplierTelephoneNumber: 020 11111111 daysDelivery: 6	Error message to be displayed saying	 <p>The screenshot shows the 'Add a Supplier' form with the following data entered:</p> <ul style="list-style-type: none"> Supplier ID: 15 Supplier name: CVS Telephone number: 020 11111111 * Number days for delivery: 6 * 1 to 5 days only <p>A Microsoft Access error dialog box is overlaid, stating: "The delivery days must be from 1 to 5 days".</p>	
3	X	SupplierID: Autonumber Supplier: CVS SupplierTelephoneNumber: 020 11111111 DaysDelivery: 0	Error message to be displayed saying	 <p>The screenshot shows the 'Add a Supplier' form with the following data entered:</p> <ul style="list-style-type: none"> Supplier ID: 15 Supplier name: CVS Telephone number: 020 11111111 * Number days for delivery: 0 * 1 to 5 days only <p>A Microsoft Access error dialog box is overlaid, stating: "The delivery days must be from 1 to 5 days".</p>	

4	N	<p>SupplierID: Autonumber Supplier: CVS SupplierTelephoneNumber: 020 11111111 daysDelivery: 2</p>	<p>The screenshot shows the Microsoft Access interface. At the top, there are two windows: 'tblSupplier' (list view) and 'Add a Supplier' (form view). The 'tblSupplier' window displays a list of suppliers with columns: SupplierID, Supplier, SupplierTelephoneNumber, DeliveryDay, and City. The 'Add a Supplier' window is a modal form with fields for Supplier ID (15), Supplier name (CVS), Telephone number (020 11111111), and Number days for delivery (2). A note at the bottom specifies '1 to 5 days only'. The 'Save' button is visible at the bottom of the form.</p>
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			<p>Add a Supplier</p> <p>Input the supplier name, telephone number and the number of days for delivery. Click Save to save the details of the new supplier.</p> <p>Supplier ID (New)</p> <p>Supplier name <input type="text"/></p> <p>Telephone number <input type="text"/> *</p> <p>Number days for delivery 1 * 1 to 5 days only</p> <p>Save</p> <p>Microsoft Access</p> <p>The supplier details have been saved</p> <p>OK</p>	
5&6	N	<p>Product: Junior Socks Number Delivered: 10</p> <p>Cost Price: £1.50 Selling Price: £2.00 Current Stock: 20 Updated Stock: 30 Overall product cost: £45.00 Overall sales value: £60.00</p>	<p>Add a Delivery</p> <p>Select the product</p> <p>Junior Socks</p> <p>Enter number delivered 1 *</p> <p>Cost price £1.50 Updated stock 21</p> <p>Selling price £2.00 Overall product cost £31.50</p> <p>Current stock 20 Overall sales value £42.00</p>	

Activity 8 – Evaluation

No evaluation example included as these can end up becoming the 'only way' candidates evidence this activity.